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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		see Form PCT/ISA/220
PC541ED V	ACTION as well as, where		as, where applicable, item 5 below.
International application No.	International filing date (day/mor	th/year)	(Earliest) Priority Date (day/month/year)
PCT/IB2004/004253 ✓	22/12/200	ı 🗸	22/12/2003 /
Applicant			
INFM ISTITUTO NAZIONALE PI	ER LA FISICA DELLA	•	
This International Search Report has bee according to Article 18. A copy is being tra	n prepared by this International Se ansmitted to the International Bure	arching Aut	nority and is transmitted to the applicant
This International Search Report consists	of a total of 5s	heets.	
1	a copy of each prior art document	cited in this	report.
Basis of the report a. With regard to the language, the language in which it was filed, un	international search was carried o less otherwise indicated under this	ut on the ba	sis of the international application in the
	search was carried out on the bas		lation of the international application furnished to
	, ,,	e disclosed	in the international application, see Box No. I.
2. Certain claims were fou	nd unsearchable (See Box II).		
3. Unity of invention is lac	king (see Box III).		
4. With regard to the title ,	/		
X the text is approved as so	ubmitted by the applicant.		
the text has been established	shed by this Authority to read as fo	lows:	
5. With regard to the abstract,	ub militard but the conflictont		
	ubmitted by the applicant.	this Author	ity as it appears in Box No. IV. The applicant
may, within one month fr	om the date of mailing of this inter	ational sea	rch report, submit comments to this Authority.
6. With regard to the drawings,			/
a. the figure of the drawings to be	published with the abstract is Figur	e No1,	2 1
x as suggested by	- ·		
· =	is Authority, because the applican		
	is Authority, because this figure be	tter charact	enzes the invention.
b none of the figures is to t	pe published with the abstract.		

International Application No PCT/IB2004/004253

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G01N21/33 G01N H01L31/0264 H01L31/0352 G01N21/31 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 GO1N H01L Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, COMPENDEX C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages Category US 4 796 590 A (DEGOBERT ET AL) 1-22 Υ 10 January 1989 (1989-01-10) column 2, line 49 - line 62 column 3, line 15 - line 64 figure 1 1-22 Υ MORKOC H: "Potential applications of III-V nitride semiconductors" MATERIALS SCIENCE AND ENGINEERING B, ELSEVIER SEQUOIA, LAUSANNE, CH, vol. 43, no. 1-3, 1997, pages 137-146, XP004073412 ISSN: 0921-5107 abstract -/--Patent family members are listed in annex. Further documents are listed in the continuation of box C. X ° Special categories of cited documents: 'T' later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the *A* document defining the general state of the art which is not considered to be of particular relevance invention earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docudocument referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of malling of the international search report Date of the actual completion of the international search 27 April 2005 04/05/2005 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Stussi, E

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